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#### Transmittal Cover Sheet

To

Donald L. Wenskay

Company

Walt Disney

Fax Number

(818) 557-8440

From

Christopher Darrow

Subject

Streaming of Digital Data Provisional Application

Comments

Don,

Attached are the three figures referred to in the draft provisional application. You mentioned that the inventor believes that I may have been working with an early version of the disclosure. I have looked carefully, but found only one disclosure signed by the inventor on April 19, 2002. If there is another, I will amend the draft as necessary.

Best regards, Chris

9

Date

No. Pages

4, including this cover sheet

Please notify me immediately if

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## Ride & Show Engineering

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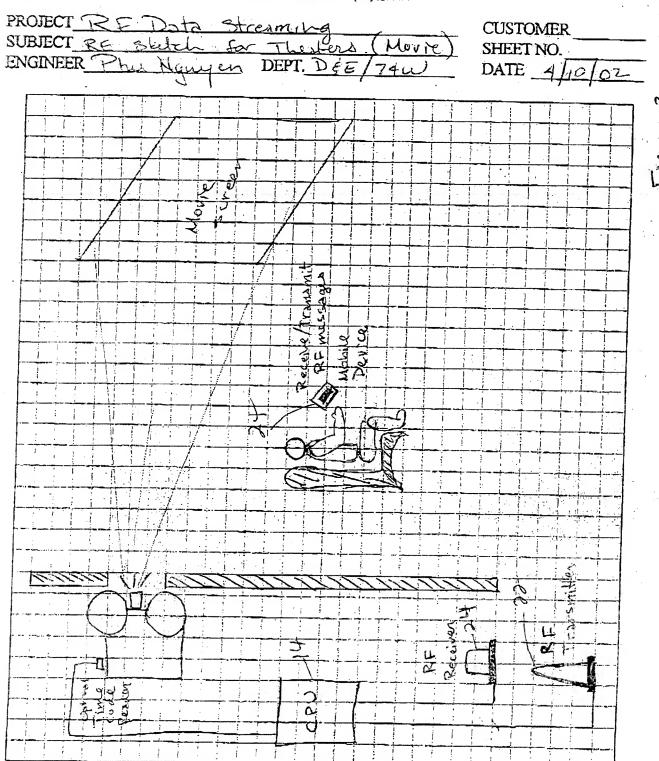
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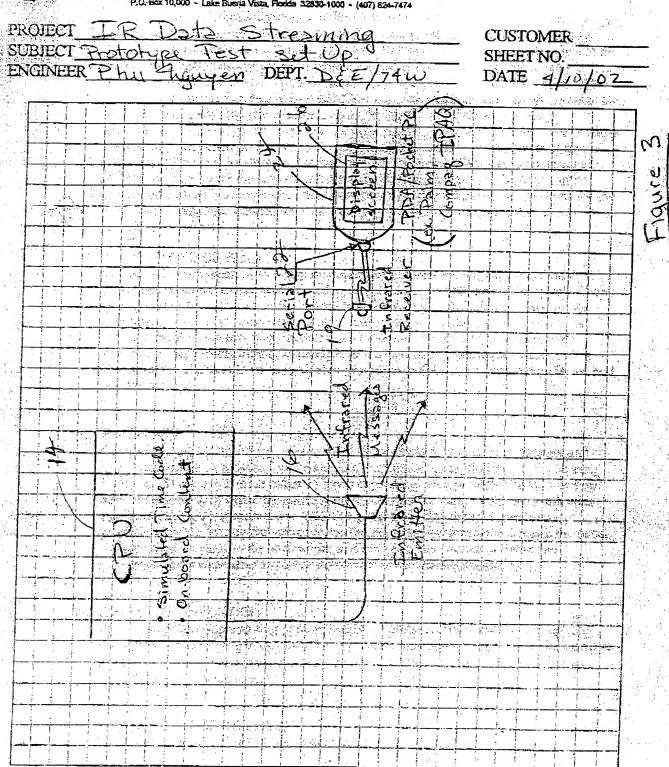




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Infrared and/or Radio Frequencies to stream digital data to portable devices in a mass audience or designated broadcast area.

#### I. SUMMARY OF IDEA

Use of infrared (IR) emission and/or radio frequency (RF) transmission to stream data to a portable device for closed captioning, language translation for multi-cultural language groups, previews, games, control of devices and/or similar applications. A person could carry the portable captioning device and/or the device could be placed in a fixture for hands free use. Before or at the time of start of a presentation or presentations, the IR/RF system will start the transmission of data to the portable units. The transmission will synchronize the portable device with the presentation or presentations for captioning, language translation, previews, games, control of devices and/or similar applications. The portable device might be based on existing technologies such as mobile phone, personal digital assistant (PDA) or a combination of both mobile phone and PDA, a custom designed device specifically for this application, or an interactive device. This system can be combined with an existing audio streaming for the hearing impaired, descriptions for the blind and/or language translation. (Example: Infrared streaming for Assistive Listening Systems)

#### II. PROBLEM TO BE SOLVED

Persons who have hearing loss may miss narratives, sound effects, music and other presentation-related sound material and messages in live performances, films, television and special events. Persons who do not speak the language or languages used in the presentation will miss narratives and other related messages that are presented. The language barrier prevents many people from different cultures and languages from understanding, participating or interacting in the information being presented.

Presentations often could use a method to provide interactivity between the audience and the presenter(s).

Existing systems are not aware of user preferences, such as the user's language, gender, age, etc.

Existing analog wireless audio systems suffer from signal loss and deterioration of the transmitted audio when the user moves relative to the infrared transmitter.

Existing digital wireless audio systems do not have provisions for mixing text or control data in the audio data stream.

Existing wireless data communication systems do not have the combined features of:

- Multiple users' devices simultaneously receiving identical data.
- Multiple users' devices remaining synchronized with the presentation(s).
- User devices able to receive different types of data, such as audio, animation control, text, etc. during a single transmission.
- User devices able to interact with the presentation, interact with the presenters, or interact with each other.

#### III. PRIOR ART

Captioning systems have been used in other venues including museums, theaters and other auditoriums to provide foreign language translation or captioning for the hearing impaired. These systems are either 1) 'open captioning' on a projected surface or large adjacent display area where the entire audience can see the captioning, or 2) reflective captioning using a transparent but reflective panel to display the text from a rear projection while allowing the viewer to see the display or performance through the panel, 3) hard-wired displays in the back of the seat in front of the viewer.

Wireless streaming systems have consisted of:

- 1. Modulated analog audio broadcasts. Examples include assistive listening systems and wireless headphones.
- 2. Digitized audio broadcasts. Examples include assistive listening systems and wireless headphones.
- 3. Short-range (often 1 meter or less) digital data transceivers typically used to exchange data between computers or between computers and peripherals. These systems do not synchronize multiple units.

#### IV. OBJECT OF INVENTION

Provide a method of presenting random and/or synchronized information (narratives, translations, interactive games, control signal commands or other show related messages) to patrons of shows, movie theaters, exhibit halls/auditorium and/or designated areas through an unobtrusive device.

Some possible user device implementations include:

- 1. A custom portable text display terminal, having a receiver, display controller, micro-controller, small amount of memory, and power source.
- 2. A PDA such as one of the Palm Pilot or Compaq iPaq series with a receiver and text display software.
- 3. A custom audio unit, having a receiver, digital-to-analog converter, audio amplifier, and speaker (one or more speakers, possibly mounted in a headphone.)
- 4. A talking toy or game.
- 5. A motorized animated toy or game.
- 6. A special effects unit, having some combination of lights, audio effects, or animations. The unit could be held by the user or mounted in the presentation space as a remotely controlled device.
- 7. A toy or game that receives content appropriate to the presentation, and also allows interaction with nearby units.
- 8. A digital map or way-finding unit.
- 9. A messaging system that allows the user to broadcast and receive data to and from nearby units.
- 10. A user identification unit that broadcasts user identity, preferences, or location to nearby units.

#### V. DESCRIPTION OF INVENTION

The hardware requirements of this system include: (see Figure 1 & Figure 2)

1) A time code reader (e.g. optical reader) capable of reading time codes from a show device. (e.g. film projector, show control computer or other media sources)

- 2) A central processing unit (CPU) will receive the time code signal from the reader and synchronize the content (e.g. text captioning, language translation, games and or other related applications) with the film and/or presentation. The central processing unit will have the capability to access the content. The content can reside on the internal memory as part of the central processing unit and/or as a removable memory media.
- 3) The CPU will deliver the synchronized data to the infrared emitters capable of delivering IR messages or control data to the portable device in an indoor/outdoor environment. (plurality: a low-powered licensed and/or non-licensed RF system can also be used to deliver the synchronized data to the portable device via an RF signal)
- 4) The portable display device will have sufficient internal and/or removable memory to allow storage of all data to be presented. The device will also contain infrared ports capable of receiving and/or emitting infrared messages. (plurality: The device could also contain a RF receiver and/or transmitter ports capable of receiving and transmitting RF messages.) The portable device will receive the wireless signal and convert the signal to information that can be stored and/or displayed in sync with the presentation. The device may also contain the capability to receive and play audio such as Assistive Listening and/or audio language translations, or program material specific to the presentation, or control devices.
- 5) The system could also recognize a show/presentation start or end. The system could then transmit random and/or synchronized information to the patrons possessing a device. This will allow the patrons to interact with the device while waiting for the show/presentation to start or after the show/presentation has ended.

#### VI. TEST DATA OR REDUCTION TO PRACTICE

Working prototypes of the central processing unit, emitter and receiver have been constructed by Walt Disney World Company © Design and Engineering. See Figure 3, attached drawings and software code. In this application, we chose to simulate the time code information to the CPU. The CPU then accesses on board content and delivers the synchronized data to the infrared emitters capable of delivering IR messages. A portable device receives the IR messages and converts the IR messages to presentable data. In this instance, the IR receiver is a modification to an existing device such as a PDA (ex: Palm) and/or a pocket PC (ex: Compaq iPAQ) that can store and/or immediately display the data. The IR receiver takes the IR signal from the emitter and translates it to an electronic signal for the serial port of the PDA and/or pocket PC. A terminal software program converts the electronic signal into data that is presented as text on the display screen.

#### VII. WHAT USE IS PLANNED FOR INVENTION

It is the Walt Disney Company's intention to: 1) make this technology commercially available for application in the movie theater for text captioning and language translation; 2) apply the technology to consumer products which can provide an interactive experience and 3) to provide a wireless link for control signals to equipment, devices or products which are used in public presentations.

#### VIII. RECORDS

See attachments:

#### IX. INVENTION QUESTIONNAIRE

Attach completed Invention Questionnaire

WITNESS AND DATE	
Inventor Phu V. Nguyen	Signature
Date	
Inventor William G. Wiedefeld	Signature
Date	
Inventor Greg B. Hale	Signature
Date	
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<sup>\*</sup> When the invention is joint, all inventors must sign and date the disclosure letter.

#### WALT DISNEY IMAGINEERING

#### INVENTION QUESTIONNAIRE

To increase the likelihood that we obtain a valid patent on the invention of the subject disclosure letter, and to enable us to comply with certain contractual and legal requirements, this form should be filled out promptly and attached to your disclosure letter. In case of joint inventors, each inventor should complete a separate questionnaire.

Note: If an application covering this invention is filed in the Patent and Trademark Office, you will have a duty to disclose to the Office any information of which you are aware and which is material to the examination of the application. You can fulfill your duty by disclosing such information in writing to the individual having responsibility for this docket. Because of this duty to disclose, it is imperative that all information requested in this form be fully and accurately provided.

With respect to this invention:				
a. Have steps been taken to put it into <i>use</i> , either outside V operations?	/DW o Yes(		r own No()	
	. 55(	,		· ,
b. Has it been <i>used</i> , either outside WDW or in our own ope	rations Yes(		No(	X )
c. Has it been sold or offered for sale?	Yes(	)	No(2	X )
d. If it pertains to a process, have any steps been taken to ecommercially?	employ Yes(		ocess No(2	
e. Has it been described in a printed publication?	Yes(	)	No()	× )
f. Has it been disclosed in a talk or a paper presented at a p	ublic n Yes(		j? No( )	<b>×</b> )
g. Has it been otherwise disclosed outside of WDW ( $e.g.$ to	vendo Yes(		ustom No()	
h. Has it been disclosed to other WDC division?  Note: It has been disclosed to WDI and Corporate Legal.	Yes( >	<b>X</b> )	No(	)
i. If not, is any such use, sale, publication or disclosure now What does this question mean????????????????????????????????????	contei Yes( >		d? No(	)

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### INVENTION QUESTIONNAIRE PAGE TWO

i. Has it been reduced to practice (e.g. made, carried out, built and tested) or has a mode been built?  Yes( ) No( X )
If you answered "yes" to any of the above questions, please indicate the earliest dates, and give the surrounding circumstances:  Woody McKeeby of WDI Scientific Systems participated in the prototype test describe in section VI on xx/xx/xx.
Identify WDW employees, other than co-inventors, who will have detailed information regarding commercial utilization of the invention:
Woody Mckeeby, Tom Craven, Greg Hale, Cynthia Gray, Jeff W. Smith
Who made contributions in bringing the invention to its present state, aside from those named as inventors on the disclosure letter?
Woody Mckeeby, WDI/Scientific Systems, Bill Brasher WDW/Design & Engineering
Search:  a. Was any search made with respect to this invention?
Yes(X) No()
b. If so, describe (e.g. by whom, when, sources used, etc.) <u>Bill Wiedefeld performed a patent search at the www.uspto.gov website on April 4, 2002 and found patents No. 5,596,603, No. 5,546,211, No.5,548,654, No. 5,596,648, No. 4,977,618, No. 4,727,600, No. 6,327,141, No. 6,154,300, No. 5,642,426, No. 5,872,615, No. 5,740,369</u>
c. Who now has possession of any tangible results of the search?

### INVENTION QUESTIONNAIRE PAGE THREE

6. Is this invention based upon, or complimentary to, any prior or contemporaneous work known to you, of your co-workers or of other WDW employees?

A previous disclosure regarding the use of IR for captioning has been submitted to Legal.

Disclosure Title: Infrared Triggering Devices and Methods

Date: December 4, 2001

Note: It is particularly critical that the Legal Counsel be informed of any prior or contemporaneous work, pertaining to the subject matter of this docket, by any co-worker, or by an employee assigned to another WDC division, or by any outside contractor.

7.	Identify the first written description of this invention:  Hand sketch of the system dated April 4, 2002.			
8.	Have you signed an Employee Confidentiality Agreement?	Yes(	X )	No( )
9.	Was the original idea for this invention conceived in the pertexternal customer, either directly or through another WDC division?			vork funded by ar
10.	Was the invention reduced to practice in the performance of customer, either directly or another WDC division?	f work t Yes(		l by an external No( X )
11.	If the answer to question 9 or 10 is "Yes", please supply as information as is appropriate.	much c	of the f	ollowing
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12.	If this invention has not yet been reduced to practice, is it lik to practice in the performance of work funded by an externa through another WDC division?	I custo	t it will mer, e	No( ) be first reduced ither directly or No( X )
13.	If the answer to question #12 is "Yes", please identify the cu	ıstomer	and o	contract

## INVENTION QUESTIONNAIRE PAGE FOUR

This for	m was completed by:		
Phu		Van	Nguyen
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Citizen	ship: <u>United States o</u>	f America	
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b.	any public use or demons to this invention;	stration of products or methods wh	ich might be considered as pertaining
C.	any commercial product of	over which this invention is an impr	rovement;
d.	any pertinent co-worker's	prior or contemporaneous work of	f which I have knowledge; and
e.	any sale or offer for sale of	of products incorporating this inver	ntion or made by its use.
		Sign	nature
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	/DW individual responsible on disclosed above,	e for Design & Engineering, I have	read, understand and agree with the
		•	/ice President, Engineering
		Date :	 Signed



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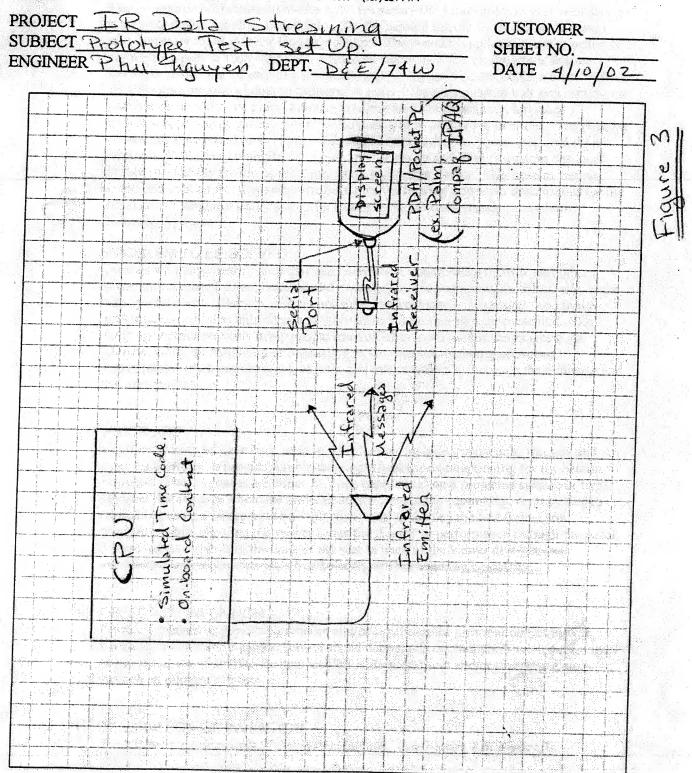
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Matter Time and Disbursement Details

**Greenberg Traurig** 

Time From: 1/1/02 to 123102
Disbursements From: 010102 to 123102

Client Code: 054317
Matter Code: 022500
All Job Titles
All Cost Codes
All Action Codes
Statuses: Billed

Client Last Payment: May 18 2007 Oct 23 2006 Matter Last Billed: Amount Status Narrative Darrow, Christopher Darrow, Christopher Std. Amount CPD Resp Atty: CPD Bill Atty: Rate Base Amount Base Hrs/Qty Bill Num Bill Date Time ID Disb ID IR Streaming of Digital Data P-206DW The Walt Disney Company 022500 054317 Client Matter Date

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7/16/02	СРО	Darrow, Christopher	11838523	927874	8/30/2002	.20					Meeting with D. Wenskay and studying disclosure for a patentability search.
7/17/02	СРО	Darrow, Christopher	25460899	927874	8/30/2002	22	1			89	Reviewing the disclosure and information in the file, and preparing search requests.
7/18/02	CPD	Darrow, Christopher	25460914	927874	8/30/2002	.15				2	Reviewing the materials received from Mr. Wenskay and considering searches for each.
7/19/02	CPD	Darrow, Christopher	25460929	927874	8/30/2002	70		4,4	3	8	Considering the disclosures and additional information necessary to define the search project.
7/24/02	MGM	Maddux, Margo	11832508	927874	8/30/2002	35	1			5	Review of disclosures of all new cases including this matter received from Mr. Wenskay, in preparation for performing prior art searches.
7/31/02	MGM	Maddux, Margo	11832253	927874	8/30/2002	1.25		Ī	1	2	Search for related Provisional Applications.
10/9/02	MGM	Maddux, Margo	11847989	966843	11/22/2002	1.50			1	8	Review of file including invention disclosure; Locate draft provisional application, Work out issues with filing provisional application.
10/14/02	MGM	Maddux, Margo	11848895	966843	11/22/2002	1.40	Ĝ				Receipt of new disclosure from inventors. Review of disclosure in comparison to previous disclosure.
10/15/02	MGM	Maddux, Margo	11849104	966843	11/22/2002	2.50				В	Preparation of Provisional Patent Application.
10/16/02	MGM	Maddux, Margo	11849477	966843	11/22/2002	4.00		Ì		1	Work on Patent Application
10/17/02	MGM	Maddux, Margo	11849709	966843	11/22/2002	1.00			1	B	Transmit draft Provisional Patent Application to Inventors for their review.
10/22/02	MGM	Maddux, Margo	11850720	966843	11/22/2002	95.				8	Telephone conference with Inventor.
10/23/02	MGM	Maddux, Margo	11850967	966843	11/22/2002	1.75	•	Î	1	å	Receipt of inventor's comments on Draft Provisional Application. Revise draft application according to inventor's comments. Write additional claims in cover
10/24/02	MGM	Maddux, Margo	11851388	966843	11/22/2002	1.50			Î	B	embodiments suggested by inventor.  Transmit second draft of patent application to inventors. Telephone conference with inventors.
10/25/02	MGM	Maddux, Margo	11851629	966843	11/22/2002	1.75		1		2 B	Transmit drawings to inventor for his review. Comminication with Greg Hale regarding patent Strategy. Discussion with attorney renarding case and natentability search. Attend to films
10/25/02	MGM	Maddux, Margo	11851919	979972	12/20/2002	.25					Provisional Parties Chart and send to attorneys.
10/25/02	VRS	Santos, Victor H.	11851884	966843	11/22/2002	1.00	1	Î		B	U.S.A. Provisional Application filed on October 25, 2002 - review file, create new docket entries into database for life of provisional patent application; among them
10/28/02	MGM	Maddux, Margo	11851895	966843	11/22/2002	57.	1		1	B	true due dates, reminder dates, calendar notices, return file to responsible attorney.  Preparation of letter to professional searcher requesting patentability search.

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Matter Time and Disbursement Details

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10/26/02	SERVIC	Service Company Charges	12500633	966843	11/22/2002	00.	750.00	750.00	750.00 B	VENDOR: Blackmon I.P. Services; INVOICE#: BCCEB225.501; DATE: 10/26/2002 - Preliminary Patentability Search

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Matter Time and Disbursement Details

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Client Code: 054317 Matter Code: 02500 All Job Titles All Cost Codes All Action Codes Statuses: Billed

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Narrative	Copy; 4 Page(s) by 4975	Copy; 3 Page(s) by 4975	Facsimile; 917034124884, 5 Page(s) by 4975	(Sharon Farrus) 54317.022500 Use: Additional amount due because of corrected charge (\$160) posted to USPTO account on 10/29/02. (Provisional Application	Filing Fee—Client was billed @ \$150 on 10/25/02) VENDOR: PatPro; INVOICE#: 21118.GT; DATE: 11/13/2002 - Professsional fees/disbursement/copies and mailing	Copy, 110 Page(s) by 9075	Copy; 353 Page(s) by 9075	VENDOR: FedEx INVOICE#, 450621061 DATE: 11/29/2002 Tracking #833684279940; From: MADDUX M, GREENBERG TRAURIG, 2450 COLORADO AVE STE 400E, SANTA MONICA, CA 904045524; TO: BILL WIEDEFELD, INFORMATION NOT SUPPLIED, 10722 LAKE HILL DR,	CLEKMONI, 1-134711 VENDOR: Fedex INVOICE#: 450621061 DATE: 11/29/2002 Tracking #833642/7930; From: MADDLIX M, GREENBERG TRAURIG; 2450 COLORADO AAF STE 400E, SANTA MONICA, CA 904045524; TO: DON WENSKEY, WALT DISNEY COMPANY, 500 SOUTH BUENA VISTA ST,	eukakuk, (JA 91921 Copy; 3 Page(s) by 3784	Copy; 2 Page(s) by 4975	Postage by 9075	
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Matter Summary For. 022500

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Client Code: 054317
Matter Code: 022500
All Job Titles
All Cost Codes
All Action Codes
Statuses: Billed

Greenberg Traurig
Matter Time and Disbursement Details

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Grouped by Matter

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Client Summary For: 054317

#### Maddux, Margo (PatAgt-LA-IP)

From: Maddux, Margo (PatAgt-LA-IP)

Sent: Thursday, August 22, 2002 4:56 PM

To: 'greg.hale@disney.com'
Subject: IR Triggering/Streaming

Hi Greg -

I am a Patent Agent in Los Angeles working with Chris Darrow, who has been working on some cases with you. I have been reviewing two cases in the past few days. One is for a provisional patent application that was filed in December on an IR Triggering Device. The other is a newer case that is entitled "IR Streaming of Digital Data" You are listed as an inventor for both of these cases.

I was wondering if you, or someone else, knowledgeable in these two matters might have some time to talk to me. I would like to move forward with filing a provisional application on the newer case, and following up with a utility application with the older case. I am under the impression that perhaps we are missing some disclosure material on the newer case, as well.

Let me know when you have time, or feel free to give me a call.

thanks! - margo

Margo Maddux
Patent Agent
Greenberg Traurig, LLP
Los Angeles Office
Phone 310.586.7827 (direct)
Fax 310.586.0237 (direct)
madduxm@gtlaw.com

Spoke to Winnie \$ 10/10 left msg w/ Phu 10/10.